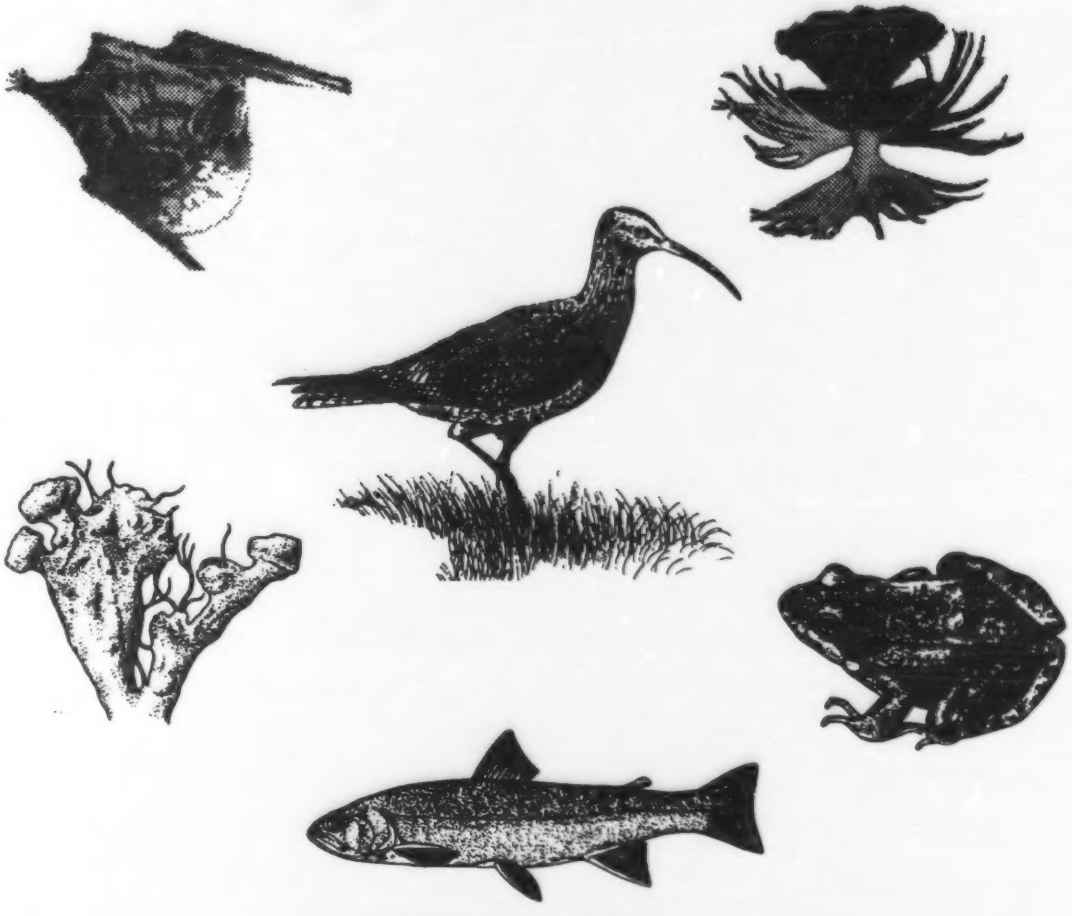
CANADIAN SPECIES AT RISK

MAY 2000



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COSEWIC
COMMITTEE ON THE STATUS OF ENDANGERED WILDLIFE IN CANADA

COSEPAC
COMITÉ SUR LA SITUATION DES ESPÈCES EN PÉRIL AU CANADA

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Seaside Centipede Lichen	- T. Goward, Clearwater, British Columbia
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Western Prairie Fringed Orchid	- adapted from photo by R. Westwood, University of Winnipeg, Winnipeg, Manitoba

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COSEWIC MANDATE

The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) determines the national status of wild species, subspecies, varieties, and nationally significant populations that are considered to be at risk in Canada. Designations are made on all native species for the following taxonomic groups: Mammals, Birds, Amphibians, Reptiles, Fish, Molluscs, Lepidopterans, Vascular Plants, Lichens, and Mosses. A record of status re-examinations is also maintained.

COSEWIC MEMBERSHIP

COSEWIC is comprised of representatives from each provincial and territorial government wildlife agency, four federal agencies (Canadian Wildlife Service, Parks Canada Agency, Department of Fisheries and Oceans, and Federal Biosystematic Partnership), three national non-government organizations (Canadian Nature Federation, Canadian Wildlife Federation, and World Wildlife Fund Canada) and the chairs of the species and traditional aboriginal knowledge specialist groups. The Committee meets annually to consider status reports on candidate species.

COSEWIC LISTS

The first COSEWIC "Endangered Species List" was issued in 1978. In 1990, it was decided that all species considered by COSEWIC should be listed even if the species were "not at risk" or "data deficient". Therefore, this document is divided into three separate lists under the title "Canadian Species at Risk":

List 1: Species designated in 5 "Risk" categories with geographical occurrence and date examined. (This is COSEWIC's "official" list of Species at Risk.)

List 2: Species examined and designated in the Not at Risk category, with geographical occurrence and date examined.

List 3: Species examined and designated in the Data Deficient category because of insufficient scientific information, with geographical occurrence and date examined.

A record of status re-examinations and re-assessments resulting in status changes can be found at the back of the document.

SUMMARY TABLES FOR COSEWIC LISTS
MAY 2000

COSEWIC LIST 1: SPECIES AT RISK

CATEGORY / STATUS	EXTINCT	EXTIRPATED	ENDANGERED	THREATENED	SPECIAL CONCERN	TOTALS
Amphibians			4	1	10	15
Birds	3	2	18	7	22	52
Fish	6	2	9	13	43	73
Lepidopterans		3	1		2	6
Lichens			1		3	4
Mammals	2	4	15	12	25	58
Molluscs	1	1	5	1		8
Mosses			1			1
Vascular Plants		2	44	31	40	117
Reptiles		1	4	6	8	19
TOTALS	12	15	102	71	153	353

COSEWIC LIST 2:
SPECIES NOT AT RISK

CATEGORY / STATUS	NOT AT RISK
Amphibians	9
Birds	35
Fish	30
Lepidopterans	
Lichens	
Mammals	47
Molluscs	
Mosses	
Vascular Plants	16
Reptiles	1
TOTALS	136

COSEWIC LIST 3:
DATA DEFICIENT SPECIES

CATEGORY / STATUS	DATA DEFICIENT
Amphibians	
Birds	3
Fish	7
Lepidopterans	
Lichens	
Mammals	9
Molluscs	1
Mosses	
Vascular Plants	4
Reptiles	
TOTALS	24

SUMMARY TABLES FOR MAY 2000 (continued)

RE-ASSESSED AND NEW SPECIES

CATEGORY / STATUS	EXTINCT	EXTIRPATED	ENDANGERED	THREATENED	SPECIAL CONCERN	NOT AT RISK	TOTALS
Amphibians			3		1	2	6
Birds	3	2	7	2	1		15
Fish	6	2	7	1	2		18
Lepidopterans		3	1		1		5
Lichens			1				1
Mammals	2	4	6	6		3	21
Molluscs	1	1	4	1			7
Mosses			1				1
Vascular Plants		2	38	18	5		63
Reptiles		1		3			4
TOTALS	12	15	68	31	10	5	141

SUMMARY OF CHANGES FOR RE-ASSESSED SPECIES

CATEGORY / STATUS	EXTINCT	EXTIRPATED	ENDANGERED	THREATENED	SPECIAL CONCERN	NOT AT RISK	TOTALS
New			3	3	8	4	18
Uplisted			13	4			17
Downlisted				1			1
Delisted							
No Change	12	15	52	23	2	1	105
TOTALS	12	15	68	31	10	5	141

DEFINITION OF TERMS AND RISK CATEGORIES

Species	Any indigenous species, subspecies, variety, or geographically defined population of wild fauna and flora.
Extinct (X)	A species that no longer exists.
Extirpated (XT)	A species no longer existing in the wild in Canada, but occurring elsewhere.
Endangered (E)	A species facing imminent extirpation or extinction.
Threatened (T)	A species likely to become endangered if limiting factors are not reversed.
Special Concern (SC)*	A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events.
Not At Risk (NAR)**	A species that has been evaluated and found to be not at risk.
Data Deficient (DD)***	A species for which there is insufficient scientific information to support status designation.

* Formerly described as "Vulnerable" from 1990 to 1999, or "Rare" prior to 1990.

** Formerly described as "Not In Any Category", or "No Designation Required".

*** Formerly described as "Indeterminate" from 1994 to 1999 or "ISIBD" (insufficient scientific information on which to base a designation) prior to 1994.

SYMBOLS AND ABBREVIATIONS

+	Species transferred without re-evaluation to Special Concern category from the former Rare and Vulnerable categories.
++	Status determination in 1985 based on historic records only. Report prepared and given approval by COSEWIC in 1994.
↑	Species re-examined and moved to a higher risk category.
↓	Species re-examined and moved to a lower risk category.
↔	Species re-examined and not moved to another category.
Δ	Species re-assessed with new COSEWIC criteria adopted from The World Conservation Union (IUCN).
year	Species with new information or new species added during current year.

GEOGRAPHICAL LOCATIONS

AB	Alberta	NU	Nunavut
BC	British Columbia	ON	Ontario
MB	Manitoba	PE	Prince Edward Island
NB	New Brunswick	QC	Québec
NF	Newfoundland	SK	Saskatchewan
NS	Nova Scotia	YT	Yukon Territory
NT	Northwest Territories		

LIST 1. SPECIES DESIGNATED IN THE FIVE "RISK" CATEGORIES WITH GEOGRAPHICAL OCCURRENCE[1,2] AND THE YEAR OF DESIGNATION

EXTINCT CATEGORY

				Extinct[3]	Examined
MAMMALS (2)					
Δ	Caribou, Woodland	*Rangifer tarandus dawsoni*	(Queen Charlotte Islands population) BC	1920's	1984
Δ	Mink, Sea	*Mustela macrodon*	Atlantic coastal waters	1894	1986
BIRDS (3)					
++Δ	Auk, Great	*Pinguinus impennis*	QC, NB, NS, NF	1844	1985
++Δ	Duck, Labrador	*Camptorhynchus labradorius*	QC, NB, NS, NF	1875	1985
++Δ	Pigeon, Passenger	*Ectopistes migratorius*	SK, MB, ON, QC, NB, NS, PE	1914	1985
AMPHIBIANS					

REPTILES					

FISH (6)					
Δ	Cisco, Deepwater	*Coregonus johannae*	ON	1952	1988
Δ	Cisco, Longjaw	*Coregonus alpenae*	ON	1975	1985
Δ	Dace, Banff Longnose	*Rhinichthys cataractae smithi*	AB	1986	1987
Δ	Stickleback, Benthic Hadley Lake	*Gasterosteus* sp.	BC	1999	1999
Δ	Stickleback, Limnetic Hadley Lake	*Gasterosteus* sp.	BC	1999	1999
Δ	Walleye, Blue	*Stizostedion vitreum glaucum*	ON	1965	1985
MOLLUSCS (1)					
Δ	Limpet, Eelgrass	*Lottia alveus*	QC, NS, NF	1929	1996
LEPIDOPTERANS					

PLANTS					

LICHENS					

MOSSES					
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1 **Historic distribution for extinct and extirpated species are shown on pages 1 and 2.**

2 **Canadian breeding and wintering distribution is indicated for birds.**

3 **Approximate date of extinction is indicated.**

LIST 1. (continued)

EXTIRPATED CATEGORY

				Extirpated[4]	Examined
MAMMALS (4)					
Δ	Bear, Grizzly	*Ursus arctos*	(Prairie population) AB, SK, MB	1880's	1991
Δ	Ferret, Black-footed	*Mustela nigripes*	AB, SK, MB	1974	1978
Δ	Walrus, Atlantic	*Odobenus rosmarus rosmarus*	Atlantic coastal waters	1850	1987
Δ	Whale, Grey	*Eschrichtius robustus*	Atlantic population	prior 1800	1987
BIRDS (2)					
Δ	Grouse, Sage	*Centrocercus urophasianus phaios*	(British Columbia population) BC	not observed since 1960's	1997
Δ	Prairie-Chicken, Greater	*Tympanuchus cupido*	AB, SK, MB, ON	last reported 1987 (SK)	1990
AMPHIBIANS					

REPTILES (1)					
Δ	Lizard, Pygmy Short-horned	*Phrynosoma douglassii douglassii*	(British Columbia population) BC	last reported 1898, near Osoyoos, BC	1992
FISH (2)					
Δ	Chub, Gravel	*Erimystax x-punctatus*	ON	last reported 1958, Thames River drainage	1987
Δ	Paddlefish	*Polyodon spathula*	ON	1917	1987
MOLLUSCS (1)					
Δ	Wedgemussel, Dwarf	*Alasmidonta heterodon*	NB	1968	1999
LEPIDOPTERANS (3)					
Δ	Blue, Karner	*Lycaeides melissa samuelis*	ON	1991	1997
Δ	Elfin, Frosted	*Callophrys [Incisalia] irus*	ON	1988	1999
Δ	Marble, Island	*Euchloe ausonides*	BC	prior 1910	1999
PLANTS (2)					
Δ	Blue-eyed Mary	*Collinsia verna*	ON	not observed since 1954	1987
Δ	Tick-trefoil, Illinois	*Desmodium illinoense*	ON	not observed since 1888	1991
LICHENS					

MOSSES					
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4 **Approximate date of extinction is indicated**

LIST 1. (continued)

ENDANGERED CATEGORY

MAMMALS (15)				
Δ	Badger, American	*Taxidea taxus jeffersonii*	BC	2000
Δ	Badger, American	*Taxidea taxus jacksoni*	ON	2000
	Caribou, Peary	*Rangifer tarandus pearyi*	(Banks Island population) NT, NU	1991
	Caribou, Peary	*Rangifer tarandus pearyi*	(High Arctic population) NT, NU	1991
Δ↑	Caribou, Woodland	*Rangifer tarandus caribou*	(Atlantic - Gaspésie population) QC	2000
Δ↔	Fox, Swift	*Vulpes velox*	AB, SK	1998
Δ↔	Marmot, Vancouver Island	*Marmota vancouverensis*	BC	1997
Δ↔	Marten, American	*Martes americana atrata*	(Newfoundland population) NF	1996
	Whale, Beluga	*Delphinapterus leucas*	St. Lawrence River population	1997
	Whale, Beluga	*Delphinapterus leucas*	Ungava Bay population	1988
	Whale, Beluga	*Delphinapterus leucas*	Southeast Baffin Island -Cumberland Sound population	1990
	Whale, Bowhead	*Balaena mysticetus*	Eastern Arctic population	1980
	Whale, Bowhead	*Balaena mysticetus*	Western Arctic population	1986
	Whale, Right	*Eubalaena glacialis*	Atlantic and Pacific Oceans	1990
	Wolverine	*Gulo gulo*	(Eastern population) QC, NF	1989
BIRDS (18)				
	Bobwhite, Northern	*Colinus virginianus*	ON	1994
	Crane, Whooping	*Grus americana*	NT, NU	1978
Δ↔	Curlew, Eskimo	*Numenius borealis*	All provinces and territories	2000
	Duck, Harlequin	*Histrionicus histrionicus*	(Eastern population) QC, NB, NS, NF	1990
	Flycatcher, Acadian	*Empidonax virescens*	ON	1994
Δ↔	Grouse, Sage	*Centrocercus urophasianus urophasianus*	(Prairie population) AB, SK	1998
Δ↔	Owl, Barn	*Tyto alba*	(Eastern population) ON, QC	1999
Δ↔	Owl, Burrowing	*Speotyto cunicularia*	BC, AB, MB, SK	1995
Δ↔	Owl, Northern Spotted	*Strix occidentalis caurina*	BC	1999
	Plover, Mountain	*Charadrius montanus*	AB, SK	1987
	Plover, Piping	*Charadrius melodus*	AB, SK, MB, ON, QC, NB, NS, PE, NF	1985
	Rail, King	*Rallus elegans*	ON	1994
	Shrike, Loggerhead	*Lanius ludovicianus migrans*	(Eastern population) MB, ON, QC	1991
	Sparrow, Henslow's	*Ammodramus henslowii*	ON	1993
Δ	Tern, Roseate	*Sterna dougallii*	QC, NB, NS	1999
	Thrasher, Sage	*Oreoscoptes montanus*	BC, AB, SK	1992
Δ↔	Warbler, Kirtland's	*Dendroica kirtlandii*	ON	1999
Δ↔	Warbler, Prothonotary	*Protonotaria citrea*	ON	1996
AMPHIBIANS (4)				
	Frog, Northern Cricket	*Acris crepitans blanchardi*	ON	1990
Δ↔	Frog, Northern Leopard	*Rana pipiens*	(Southern Mountain population) BC	1998
Δ↔	Frog, Oregon Spotted	*Rana pretiosa*	BC	1999
	Frog, Tailed	*Ascaphus truei*	(Southern Mountain population) BC	2000
REPTILES (4)				
	Racer, Blue	*Coluber constrictor foxii*	ON	1991
	Snake, Lake Erie Water	*Nerodia sipedon insularum*	ON	1991
Δ	Snake, Sharp-tailed	*Contia tenuis*	BC	1999
	Turtle, Leatherback	*Dermochelys coriacea*	Atlantic & Pacific Oceans	1981
FISH (9)				
Δ↔	Dace, Nooksack	*Rhinichthys* sp.	BC	1996
Δ↑	Lamprey, Morrison Creek	*Lampetra richardsoni*	BC	1999
Δ↑	Stickleback, Benthic Paxton Lake (Texada Island)	*Gasterosteus* sp.	BC	1999
Δ↑	Stickleback, Benthic Vananda Creek	*Gasterosteus* sp.	BC	1999
Δ↑	Stickleback, Limnetic Paxton Lake (Texada Island)	*Gasterosteus* sp.	BC	1999
Δ↑	Stickleback, Limnetic Vananda Creek	*Gasterosteus* sp.	BC	1999

LIST 1. (continued)

ENDANGERED CATEGORY (continued)

FISH (continued)				
	Sucker, Salish	*Catostomus* sp.	BC	1986
Δ↔	Trout, Aurora	*Salvelinus fontinalis timagamiensis*	ON	2000
	Whitefish, Atlantic (Acadian)	*Coregonus huntsmani*	NS	1984
MOLLUSCS (5)				
Δ↔	Bean, Rayed	*Villosa fabalis*	ON	1999
Δ	Lampmussel, Wavy-rayed	*Lampsilis fasciola*	ON	1999
Δ↔	Physa, Hotwater	*Physella wrighti*	BC	1998
Δ↔	Riffleshell, Northern	*Epioblasma torulosa rangiana*	ON	1999
Δ↑	Snail, Banff Springs	*Physella johnsoni*	AB	1997
LEPIDOPTERANS (1)				
Δ↔	Ringlet, Maritime	*Coenonympha tullia nipisiquit*	QC, NB	1997
PLANTS (44)				
	Agalinis, Gattinger's	*Agalinis gattingeri*	ON	1999
Δ↔	Agalinis, Skinner's	*Agalinis skinneriana*	ON	1999
	Ammannia, Scarlet	*Ammannia robusta*	BC, ON	1999
Δ↔	Avens, Eastern Mountain	*Geum peckii*	NS	1999
Δ↔	Balsamroot, Deltoid	*Balsamorhiza deltoidea*	BC	1996
Δ↑	Bulrush, Bashful (Few-flowered Club-rush)	*Trichophorum planifolium* (*Scirpus verecundus*)	ON	2000
Δ↔	Bluehearts	*Buchnera americana*	ON	1998
Δ↔	Braya, Long's	*Braya longii*	NF	1997
Δ↔	Buttercup, Water-plantain	*Ranunculus alismaefolius* var. *alismaefolius*	BC	1996
Δ↔	Bush-clover, Slender	*Lespedeza virginica*	ON	1999
Δ↔	Cactus, Eastern Prickly Pear	*Opuntia humifusa*	ON	1998
Δ↔	Coreopsis, Pink	*Coreopsis rosea*	NS	1999
Δ↔	Cryptanthe, Tiny	*Cryptantha minima*	AB, SK	1998
Δ↔	Fern, Southern Maidenhair	*Adiantum capillus-veneris*	BC	1998
	Gentian, White Prairie	*Gentiana alba*	ON	1991
Δ↔	Ginseng, American	*Panax quinquefolium*	ON, QC	1999
Δ↑	Goat's-rue, Virginia	*Tephrosia virginiana*	ON	1996
Δ↔	Goldenrod, Showy	*Solidago speciosa* var. *rigidiuscula*	ON	1999
Δ↔	Lady's-slipper, Small White	*Cypripedium candidum*	MB, ON	1999
Δ↔	Lotus, Seaside Birds-foot	*Lotus formosissimus*	BC	1996
Δ↔	Lousewort, Furbish's	*Pedicularis furbishiae*	NB	1998
Δ↔	Lupine, Prairie	*Lupinus lepidus* var. *lepidus*	BC	1996
Δ↔	Milkwort, Pink	*Polygala incarnata*	ON	1998
Δ↔	Mountain-mint, Hoary	*Pycnanthemum incanum*	ON	1998
Δ↔	Mulberry, Red	*Morus rubra*	ON	1999
Δ↔	Orchid, Western Prairie Fringed	*Platanthera praeclara*	MB	2000
Δ↔	Owl-clover, Bearded	*Triphysaria versicolor* ssp. *versicolor*	BC	1998
Δ↑	Paintbrush, Golden	*Castilleja levisecta*	BC	1995
Δ↔	Plantain, Heart-leaved	*Plantago cordata*	ON	1998
Δ↔	Pogonia, Large Whorled	*Isotria verticillata*	ON	1998
Δ↔	Pogonia, Nodding	*Triphora trianthophora*	ON	1999
Δ↔	Pogonia, Small Whorled	*Isotria medeoloides*	ON	1998
	Quillwort, Engelmann's	*Isoëtes engelmannii*	ON	1992
Δ↑	Sedge, False Hop	*Carex lupuliformis*	ON, QC	1997
Δ↔	Sedge, Juniper	*Carex juniperorum*	ON	1999
	Sundew, Thread-leaved	*Drosera filiformis*	NS	1991
Δ↔	Thistle, Pitcher's	*Cirsium pitcheri*	ON	1999
Δ↔	Toothcup	*Rotala ramosior*	BC, ON	1999
Δ↔	Tree, Cucumber	*Magnolia acuminata*	ON	1999
Δ↔	Trillium, Drooping	*Trillium flexipes*	ON	1996
	Twayblade, Purple	*Liparis liliifolia*	ON	1999
Δ↔	Wintergreen, Spotted	*Chimaphila maculata*	ON	1998

LIST 1. (continued)

ENDANGERED CATEGORY (continued)

PLANTS (continued)				
Δ↔	Wood-poppy	*Stylophorum diphyllum*	ON	1993
Δ↑	Woodsia, Blunt-lobed	*Woodsia obtusa*	ON, QC	1994
LICHENS (1)				
Δ↔	Seaside Centipede	*Heterodermia sitchensis*	BC	1996
MOSSES (1)				
Δ↑	Moss, Apple	*Bartramia stricta*	BC	1997

THREATENED CATEGORY

MAMMALS (12)				
Δ↑	Bat, Pallid	*Antrozous pallidus*	BC	2000
Δ↔	Bison, Wood	*Bison bison athabascae*	YT, NT, BC, AB	2000
	Caribou, Peary	*Rangifer tarandus pearyi*	(Low Arctic population) NT, NU	1991
Δ	Caribou, Woodland	*Rangifer tarandus caribou*	(Southern Mountain population) BC, AB	2000
Δ	Caribou, Woodland	*Rangifer tarandus caribou*	(Boreal population) YT, NT, BC, AB, SK, MB, ON, QC, NF	2000
	Mole, Townsend's	*Scapanus townsendii*	BC	1996
Δ↔	Otter, Sea	*Enhydra lutris*	Pacific coastal waters	1996
	Porpoise, Harbour	*Phocoena phocoena*	Northwest Atlantic population	1991
Δ↔	Shrew, Pacific Water	*Sorex bendirii*	BC	1994
	Whale, Beluga	*Delphinapterus leucas*	Eastern Hudson Bay population	1988
	Whale, Humpback	*Megaptera novaeangliae*	North Pacific population	1985
	Whale, Killer	*Orcinus orca*	North Pacific "resident" populations	1999
BIRDS (7)				
	Chat, Yellow-breasted	*Icteria virens auricollis*	(British Columbia population) BC	1994
Δ↔	Falcon, Anatum Peregrine	*Falco peregrinus anatum*	YT, NT, NU, BC, AB, SK, MB, ON, QC, NB, NS, NF	1999
	Murrelet, Marbled	*Brachyramphus marmoratus*	BC	1990
Δ↔	Pipit, Sprague's	*Anthus spragueii*	AB, SK, MB	1999
	Shrike, Loggerhead	*Lanius ludovicianus excubitorides*	(Prairie population) AB, SK, MB	1986
	Warbler, Hooded	*Wilsonia citrina*	ON	1994
	Woodpecker, White-headed	*Picoides albolarvatus*	BC	1992
AMPHIBIANS (1)				
	Toad, Fowler's	*Bufo fowleri* (*Bufo woodhousii fowleri*)	ON	1999
REPTILES (6)				
	Rattlesnake, Eastern Massasauga	*Sistrurus catenatus catenatus*	ON	1991
Δ↔	Snake, Black Rat	*Elaphe obsoleta obsoleta*	ON	1998
Δ↔	Snake, Eastern Fox	*Elaphe vulpina gloydi*	ON	1999
Δ↔	Snake, Queen	*Regina septemvittata*	ON	1999
	Turtle, Blanding's	*Emydoidea blandingi*	(Nova Scotia population) NS	1993
	Turtle, Spiny Softshell	*Apalone spinifera*	ON, QC	1991
FISH (13)				
	Cisco, Blackfin	*Coregonus nigripinnis*	ON	1988
	Cisco, Shortjaw	*Coregonus zenithicus*	NT, AB, SK, MB, ON	1987
	Cisco, Shortnose	*Coregonus reighardi*	ON	1987
	Darter, Channel	*Percina copelandi*	ON, QC	1993
	Darter, Eastern Sand	*Ammocrypta pellucida*	ON, QC	1994
	Madtom, Margined	*Noturus insignis*	ON, QC	1989
	Redhorse, Black	*Moxostoma duquesnei*	ON	1988
	Redhorse, Copper	*Moxostoma hubbsi*	QC	1987

LIST 1. (continued)

THREATENED CATEGORY (continued)

FISH (continued)				
	Sculpin, Deepwater	*Myoxocephalus thompsoni*	(Great Lakes population) ON	1987
	Sculpin, Shorthead	*Cottus confusus*	BC	1984
Δ↔	Smelt, Lake Utopia Dwarf	*Osmerus* sp.	NB	1988
	Stickleback, Enos Lake	*Gasterosteus* sp.	BC	1988
	Whitefish, Lake Simcoe	*Coregonus clupeaformis*	ON	1987
MOLLUSCS (1)				
Δ↔	Abalone, Northern	*Haliotis kamtschatkana*	Pacific coastal waters	1999
LEPIDOPTERANS				

PLANTS (31)				
	Ash, Blue	*Fraxinus quadrangulata*	ON	1983
Δ↔	Aster, Anticosti	*Symphyotrichum anticostense* (*Aster anticostensis*)	QC, NB	2000
Δ↑	Aster, Western Silver-leaved	*Symphyotrichum sericeum* (*Virgulus sericeus*)	MB, ON	2000
Δ↔	Aster, White-top	*Sericocarpus rigidus* (*Aster curtus*)	BC	1996
	Aster, White Wood	*Eurybia divaricata* (*Aster divaricatus*)	ON, QC	1995
Δ↔	Blue-flag, Western	*Iris missouriensis*	AB	2000
Δ↔	Braya, Fernald's	*Braya fernaldii*	NF	1997
	Chestnut, American	*Castanea dentata*	ON	1987
	Coffee-tree, Kentucky	*Gymnocladus dioica*	ON	1983
	Colicroot	*Aletris farinosa*	ON	1988
	Deerberry	*Vaccinium stamineum*	ON	1994
Δ↔	Fern, Mexican Mosquito	*Azolla mexicana*	BC	1998
Δ↔	Gentian, Plymouth	*Sabatia kennedyana*	NS	1999
Δ↔	Golden Crest	*Lophiola aurea*	NS	1999
Δ↔	Goldenseal	*Hydrastis canadensis*	ON	2000
	Greenbrier, Round-leaved	*Smilax rotundifolia*	(Ontario population) ON	1994
	Jacob's Ladder, van Brunt's	*Polemonium van-bruntiae*	QC	1994
	Lipocarpha, Small-flowered	*Lipocarpha micrantha*	BC, ON	1992
Δ↓	Mouse-ear-cress, Slender	*Halimolobos virgata*	AB, SK	2000
Δ↑	Orchid, Phantom	*Cephalanthera austiniae*	BC	2000
	Pepperbush, Sweet	*Clethra alnifolia*	NS	1998
Δ↔	Prairie-clover, Hairy	*Dalea villosa* var. *villosa*	SK, MB	1998
Δ↔	Redroot	*Lachnanthes caroliana*	NS	1994
Δ↑	Soapweed	*Yucca glauca*	AB	2000
	Spiderwort, Western	*Tradescantia occidentalis*	AB, SK, MB	1992
	Spike-rush, Tubercled	*Eleocharis tuberculosa*	NS	2000
	Verbena, Sand	*Abronia micrantha*	AB, SK	1992
	Violet, Bird's-foot	*Viola pedata*	ON	1990
Δ↔	Violet, Yellow Montane	*Viola praemorsa* ssp. *praemorsa*	BC	1995
Δ↔	Water-pennywort	*Hydrocotyle umbellata*	NS	1999
Δ↔	Water-willow, American	*Justicia americana*	ON, QC	2000
LICHENS				

MOSSES				

LIST 1. (continued)

SPECIAL CONCERN CATEGORY

MAMMALS (25)				
+	Bat, Fringed	*Myotis thysanodes*	BC	1988
+	Bat, Keen's Long-eared	*Myotis keenii*	BC	1988
+	Bat, Spotted	*Euderma maculatum*	BC	1988
	Bear, Grizzly	*Ursus arctos*	YT, NT, NU, BC, AB	1991
	Bear, Polar	*Ursus maritimus*	NT, NU, MB, ON, QC, NF	1999
	Beaver, Mountain	*Aplodontia rufa*	BC	1999
	Cottontail, Nuttall's	*Sylvilagus nuttallii nuttallii*	(British Columbia population) BC	1994
+	Ermine	*Mustela erminea haidarum*	(Queen Charlotte Islands population) BC	1984
+	Fox, Grey	*Urocyon cinereoargenteus*	AB, MB, ON, QC	1979
	Kangaroo Rat, Ord's	*Dipodomys ordii*	AB, SK	1995
	Mole, Eastern	*Scalopus aquaticus*	ON	1998
	Mouse, Western Harvest	*Reithrodontomys megalotis megalotis*	(British Columbia population) BC	1994
	Prairie Dog, Black-tailed	*Cynomys ludovicianus*	SK	1999
	Seal, Harbour	*Phoca vitulina mellonae*	(Lacs des Loups marins landlocked population) QC	1996
+	Shrew, Gaspé	*Sorex gaspensis*	QC, NB, NS	1988
+	Squirrel, Southern Flying	*Glaucomys volans*	ON, QC, NB, NS	1988
	Vole, Woodland	*(Microtus pinetorum)*	ON, QC	1998
+	Whale, Blue	*Balaenoptera musculus*	Atlantic and Pacific Oceans	1983
+	Whale, Fin	*Balaenoptera physalus*	Atlantic and Pacific Oceans	1987
	Whale, Beluga	*Delphinapterus leucas*	Eastern High Arctic/Baffin Bay population	1992
+	Whale, Humpback	*Megaptera novaeangliae*	Western North Atlantic population	1985
	Whale, Killer	*Orcinus orca*	North Pacific 'transient" population	1999
	Whale, Northern Bottlenose	*Hyperoodon ampullatus*	(Gully population) Atlantic Ocean	1996
+	Whale, Sowerby's (North Sea) Beaked	*Mesoplodon bidens*	Atlantic Ocean	1989
	Wolverine	*Gulo gulo*	(Western population) YT, NT, NU, BC, AB, SK, MB, ON	1989
BIRDS (22)				
	Bittern, Least	*Ixobrychus exilis*	MB, ON, QC, NB	1999
	Chat, Yellow-breasted	*Icteria virens virens*	(Eastern population) ON	1994
	Curlew, Long-billed	*Numenius americanus*	BC, AB, SK	1992
	Falcon, Peale's Peregrine	*Falco peregrinus pealei*	BC	1999
	Falcon, Tundra Peregrine	*Falco peregrinus tundrius*	YT, NT, NU, QC, NF	1992
	Goshawk, Queen Charlotte	*Accipiter gentilis laingi*	BC	1995
	Gull, Ivory	*Pagophila eburnea*	NT, NU, BC, MB, ON, QC NB, NS, NF	1996
	Gull, Ross'	*Rhodostethia rosea*	NT, NU, MB	1996
	Hawk, Ferruginous	*Buteo regalis*	AB, SK, MB	1995
	Hawk, Red-shouldered	*Buteo lineatus*	ON, QC	1996
	Heron, Pacific Great Blue	*Ardea herodias fannini*	BC	1997
	Murrelet, Ancient	*Synthliboramphus antiquus*	BC	1993
	Owl, Barn	*Tyto alba*	(Western population) BC	1999
	Owl, Flammulated	*Otus flammeolus*	BC	1999
	Owl, Short-eared	*Asio flammeus*	All provinces and territories	1994
	Rail, Yellow	*Coturnicops noveboracensis*	NT, NU, AB, SK, MB, ON, QC, NB, NS	1999
Δ↔	Sparrow, "Ipswich" Savannah	*Passerculus sandwichensis princeps*	NS	2000
	Thrush, Bicknell's	*Catharus bicknelli*	QC, NB, NS	1999
	Warbler, Cerulean	*Dendroica cerulea*	ON, QC	1993
	Waterthrush, Louisiana	*Seiurus motacilla*	ON, QC	1996
	Woodpecker, Lewis'	*Melanerpes lewis*	BC	1999
	Woodpecker, Red-headed	*Melanerpes erythrocephalus*	SK, MB, ON, QC	1996
AMPHIBIANS (10)				
	Frog, Northern Leopard	*Rana pipiens*	(Prairie population) AB, SK, MB	1998
	Frog, Northern Red-legged	*Rana aurora*	BC	1999
	Frog, Tailed	*Ascaphus truei*	(Pacific Coast population) BC	2000
	Salamander, Coeur d'Alène	*Plethodon idahoensis*	BC	1998

LIST 1. (continued)

SPECIAL CONCERN CATEGORY (continued)

AMPHIBIANS (continued)				
	Salamander, Mountain Dusky	*Desmognathus ochrophaeus*	QC	1998
+	Salamander, Pacific Giant	*Dicamptodon tenebrosus*	BC	1989
	Salamander, Smallmouth	*Ambystoma texanum*	ON	1991
	Salamander, Spring	*Gyrinophilus porphyriticus*	QC	1999
	Toad, Great Basin Spadefoot	*Spea intermontana*	BC	1998
	Toad, Great Plains	*Bufo cognatus*	AB, SK, MB	1999
REPTILES (8)				
	Lizard, Eastern Short-horned	*Phrynosoma douglassii brevirostre*	AB, SK	1992
	Skink, Five-lined	*Eumeces fasciatus*	ON	1998
+	Skink, Northern Prairie	*Eumeces septentrionalis septentrionalis*	MB	1989
	Snake, Butler's Garter	*Thamnophis butleri*	ON	1999
	Snake, Eastern Hognose	*Heterodon platirhinos*	ON	1997
	Racer, Eastern Yellow-bellied	*Coluber constrictor flaviventris*	SK	1991
	Turtle, Spotted	*Clemmys guttata*	ON, QC	1991
	Turtle, Wood	*Clemmys insculpta*	ON, QC, NB, NS	1996
FISH (43)				
+	Buffalo, Bigmouth	*Ictiobus cyprinellus*	SK, MB, ON	1989
+	Buffalo, Black	*Ictiobus niger*	ON	1989
+	Chub, Silver	*Macrhybopsis storeriana*	MB, ON	1985
	Chubsucker, Lake	*Erimyzon sucetta*	ON	1994
	Cisco, Spring	*Coregonus* sp.	QC	1992
	Cod, Atlantic	*Gadus morhua*	Atlantic Ocean	1998
+	Dace, Redside	*Clinostomus elongatus*	ON	1987
+	Dace, Speckled	*Rhinichthys osculus*	BC	1980
+	Dace, Umatilla	*Rhinichthys umatilla*	BC	1988
	Darter, Greenside	*Etheostoma blennioides*	ON	1990
+	Gar, Spotted	*Lepisosteus oculatus*	ON	1994
+	Killifish, Banded	*Fundulus diaphanus*	(Newfoundland population) NF	1989
+	Kiyi	*Coregonus kiyi*	ON	1988
	Lamprey, Chestnut	*Ichthyomyzon castaneus*	SK, MB	1991
+	Lamprey, Lake	*Lampetra macrostoma*	BC	1998
	Lamprey, Northern Brook	*Ichthyomyzon fossor*	MB, ON, QC	1991
+	Madtom, Brindled	*Noturus miurus*	ON	1985
	Madtom, Northern	*Noturus stigmosus*	ON	1998
△↔	Minnow, Pugnose	*Opsopoeodus emiliae*	ON	2000
	Minnow, Western Silvery	*Hybognathus argyritus*	AB	1997
+	Prickleback, Blackline	*Acantholumpenus mackayi*	(Arctic Ocean) NT, NU	1989
+	Redhorse, River	*Moxostoma carinatum*	ON, QC	1987
+	Sardine, Pacific	*Sardinops sagax*	Pacific Ocean	1987
	Sculpin, Columbia Mottled	*Cottus bairdi hubbsi*	BC	2000
	Sculpin, Cultus Pygmy	*Cottus* sp.	BC	1997
+	Sculpin, Fourhorn	*Myoxocephalus quadricornis*	(freshwater form) Arctic Islands	1989
+	Shiner, Bigmouth	*Notropis dorsalis*	MB	1985
	Shiner, Bridle	*Notropis bifrenatus*	ON	1999
+	Shiner, Pugnose	*Notropis anogenus*	ON	1985
	Shiner, Rosyface	*Notropis rubellus*	(Manitoba population) MB	1994
+	Shiner, Silver	*Notropis photogenis*	ON	1987
+	Stickleback, Charlotte Unarmoured	*Gasterosteus aculeatus*	BC	1983
+	Stickleback, Giant	*Gasterosteus* sp.	BC	1980
+	Sturgeon, Green	*Acipenser medirostris*	BC	1987
+	Sturgeon, Shortnose	*Acipenser brevirostrum*	NB	1980
	Sturgeon, White	*Acipenser transmontanus*	BC	1990
+	Sucker, Spotted	*Minytrema melanops*	ON	1994
+	Sunfish, Orangespotted	*Lepomis humilis*	ON	1989
+	Sunfish, Redbreast	*Lepomis auritus*	NB	1989
+	Topminnow, Blackstripe	*Fundulus notatus*	ON	1985
	Warmouth	*Lepomis gulosus*	ON	1994

LIST 1. (continued)

SPECIAL CONCERN CATEGORY (continued)

FISH (continued)				
+	Whitefish, Squanga	*Coregonus* sp.	YT	1987
+	Wolffish, Bering	*Anarhichas orientalis*	Arctic Ocean	1989
MOLLUSCS				
—				
LEPIDOPTERANS (2)				
	Admiral, Weidemeyer's	*Limenitis weidemeyerii*	AB	2000
	Monarch	*Danaus plexippus*	All provinces	1997
PLANTS (40)				
	Aster, Bathurst	*Symphyotrichum subulatum* (*Aster subulatus* var. *obtusifolius*)	(Bathurst population) NB	1992
	Aster, Crooked-stem	*Symphyotrichum prenanthoides* (*Aster prenanthoides*)	ON	1999
+	Aster, Gulf of St. Lawrence	*Symphyotrichum laurentianum* (*Aster laurentianus*)	NB, PE, QC	1989
	Aster, Willow	*Symphyotrichum praealtum* (*Aster praealtus*)	ON	1999
	Bartonia, Branched	*Bartonia paniculata*	ON	1992
+	Blazing Star, Dense	*Liatris spicata*	ON	1988
	Buffalograss	*Buchloë dactyloides*	SK, MB	1998
	Bulrush, Long's	*Scirpus longii*	NS	1994
	Columbo, American	*Frasera caroliniensis*	ON	1993
+	Fern, Broad Beech	*Phegopteris hexagonoptera*	ON, QC	1983
	Fern, Coastal Wood	*Dryopteris arguta*	BC	1998
	Fleabane, Provancher's	*Erigeron philadelphicus* ssp. *provancheri*	QC	1992
+	Gentian, Victorin's	*Gentiana victorinii*	QC	1987
	Goosefoot, Smooth	*Chenopodium subglabrum*	AB, SK, MB	1992
+	Green Dragon	*Arisaema dracontium*	ON, QC	1984
+	Hackberry, Dwarf	*Celtis tenuifolia*	ON	1985
	Hairgrass, Mackenzie	*Deschampsia mackenzieana*	SK	1999
+	Helleborine, Giant	*Epipactis gigantea*	BC	1998
+	Hop-tree, Common	*Ptelea trifoliata*	ON, QC	1984
	Hyacinth, Wild	*Camassia scilloides*	ON	1990
+	Indian-plantain, Tuberous	*Arnoglossum plantagineum* (*Cacalia plantaginea*)	ON	1999
+	Lilaeopsis	*Lilaeopsis chinensis*	NS	1987
	Locoweed, Hare-footed	*Oxytropis lagopus*	AB	1995
+	Meadowfoam, Macoun's	*Limnanthes macounii*	BC	1988
	Milk-vetch, Fernald's	*Astragalus robbinsii* var. *fernaldii*	QC, NF	1997
+	Oak, Shumard	*Quercus shumardii*	ON	1999
+	Orchid, Eastern Prairie Fringed	*Platanthera leucophaea*	ON	1986
+	Pondweed, Hill's	*Potamogeton hillii*	ON	1986
	Quillwort, Bolander's	*Isoëtes bolanderi*	AB	1995
+	Rose, Climbing Prairie	*Rosa setigera*	ON	1986
+	Rose-mallow, Swamp	*Hibiscus moscheutos*	ON	1987
	Rue-anemone, False	*Isopyrum biternatum*	ON	1990
	Rush, New Jersey	*Juncus caesariensis*	NS	1992
	Tansy, Floccose	*Tanacetum huronense* var. *floccosum*	SK	2000
	Thrift, Athabasca	*Armeria maritima* ssp. *interior*	SK	1999
+	Water-hemlock, Victorin's	*Cicuta maculata* var. *victorinii*	QC	1987
	Willow, Felt-leaf	*Salix silicicola*	NU, SK	2000
	Willow, Sand-dune Short capsuled	*Salix brachycarpa* var. *psammophila*	SK	2000
	Willow, Turnor's	*Salix turnorii*	SK	2000
	Yarrow, Large-headed Woolly	*Achillea millefolium* var. *megacephalum*	SK	2000

LIST 1. (continued)

SPECIAL CONCERN CATEGORY

LICHENS (3)			
Cryptic Paw	*Nephroma occultum*	BC	1995
Oldgrowth Specklebelly	*Pseudocyphellaria rainierensis*	BC	1996
Seaside Bone	*Hypogymnia heterophylla*	BC	1996

MOSSES

LIST 2. SPECIES EXAMINED AND DESIGNATED IN THE NOT AT RISK CATEGORY WITH GEOGRAPHICAL OCCURRENCE AND DATE EXAMINED

MAMMALS (47)

Δ	Badger, American	*Taxidea taxus taxus*	AB, SK, MB	2000
	Bear, American Black	*Ursus americanus*	All provinces & territories except PE	1999
Δ	Caribou, Woodland	*Rangifer tarandus caribou*	(North Mountain population) YT, NT, BC	2000
Δ↔	Caribou, Woodland	*Rangifer tarandus caribou*	(Newfoundland population) NF	2000
	Cottontail, Nuttall's	*Sylvilagus nuttallii pinetis*	(Prairie population) AB, SK	1994
	Dolphin, Atlantic White-sided	*Lagenorhynchus acutus*	Atlantic Ocean	1991
	Dolphin, Bottlenose	*Tursiops truncatus*	Atlantic Ocean	1993
	Dolphin, Common	*Delphinus delphis*	Atlantic and Pacific Oceans	1991
	Dolphin, Northern Right Whale	*Lissodelphis borealis*	Pacific Ocean	1990
	Dolphin, Pacific White-Sided	*Lagenorhynchus obliquidens*	Pacific Ocean	1990
	Dolphin, Risso's	*Grampus griseus*	Atlantic and Pacific Oceans	1990
	Dolphin, Striped	*Stenella coeruleoalba*	Atlantic and Pacific Oceans	1993
	Dolphin, White-beaked	*Lagenorhynchus albirostris*	North Atlantic Ocean	1998
	Gopher, Plains Pocket	*Geomys bursarius*	MB	1998
	Lynx	*Lynx canadensis*	All provinces and territories except PE	1989
	Narwhal	*Monodon monoceros*	Arctic Ocean	1987
	Porpoise, Dall's	*Phocoenoides dalli*	Pacific Ocean	1989
	Seal, Bearded	*Erignathus barbatus*	Arctic and Atlantic coastal waters	1994
	Seal, Grey	*Halichoerus grypus*	Atlantic coastal waters	1999
	Seal Harbour	*Phoca vitulina richardsi*	Pacific coastal waters	1999
	Seal, Hooded	*Cystophora cristata*	Atlantic coastal waters	1986
	Seal, Northern Elephant	*Mirounga angustirostris*	Pacific coastal waters	1986
	Seal, Northern Fur	*Callorhinus ursinus*	Pacific coastal waters	1996
	Seal, Ringed	*Phoca hispida*	Arctic and Atlantic coastal waters	1989
	Sea Lion, California	*Zalophus californianus*	Pacific coastal waters	1987
	Sea Lion, Steller	*Eumetopias jubatus*	Pacific coastal waters	1987
	Squirrel, Cascade Mantled Ground	*Spermophilus saturatus*	BC	1992
	Squirrel, Fox	*Sciurus niger*	MB, ON	1979
	Walrus, Atlantic	*Odobenus rosmarus rosmarus*	Eastern Arctic population	1987
	Weasel, Long-tailed	*Mustela frenata longicauda*	(Prairie population) AB, SK, MB	1993
	Whale, Baird's Beaked	*Berardius bairdii*	Pacific Ocean	1992
	Whale, Beluga	*Delphinapterus leucas*	Beaufort Sea/Arctic Ocean population	1985
	Whale, Beluga	*Delphinapterus leucas*	Western Hudson's Bay population	1993
	Whale, Blainville's Beaked	*Mesoplodon densirostris*	Atlantic Ocean	1989
	Whale, Cuvier's Beaked	*Ziphius cavirostris*	Atlantic and Pacific Oceans	1990
	Whale, False Killer	*Pseudorca crassidens*	Pacific Ocean	1990
	Whale, Grey	*Eschrichtius robustus*	Northeast Pacific population	1987
	Whale, Hubb's Beaked	*Mesoplodon carlhubbsi*	Pacific Ocean	1989
	Whale, Long-finned Pilot	*Globicephala melas*	Atlantic Ocean	1994
	Whale, Northern Bottlenose	*Hyperoodon ampullatus*	Atlantic Ocean	1993
	Whale, Pygmy Sperm	*Kogia breviceps*	Atlantic and Pacific Oceans	1994
	Whale, Short-finned Pilot	*Globicephala macrorhynchus*	Pacific Ocean	1993
	Whale, Sperm	*Physeter macrocephalus*	Atlantic and Pacific Oceans	1996
	Whale, Stejneger's Beaked	*Mesoplodon stejneri*	Pacific Ocean	1989
	Whale, True's Beaked	*Mesoplodon mirus*	Atlantic Ocean	1989
	Wolf, Grey	*Canis lupus occidentalis*	YT, NT, NU, BC, AB, SK, MB, ON, QC, NF	1999
	Wolf, Grey	*Canis lupus nubilus*	BC	1999

BIRDS (35)

Bluebird, Eastern	*Sialia sialis*	AB, SK, MB, ON, QC, NB, NS, PE	1996
Chat, Yellow-breasted	*Icteria virens auricollis*	(Prairie population) AB, SK	1994
Coot, American	*Fulica americana*	All provinces/territories except NF	1991
Cormorant, Double-crested	*Phalacrocorax auritus*	All provinces	1978
Crane, Greater Sandhill	*Grus canadensis tabida*	BC, MB, ON	1979
Eagle, Bald	*Haliaeetus leucocephalus*	All provinces and territories	1984
Eagle, Golden	*Aquila chrysaetos*	YT, NT, BC, AB, SK, MB, ON, QC, NF	1996
Falcon, Prairie	*Falco mexicanus*	BC, AB, SK	1996

LIST 2. (continued)

NOT AT RISK CATEGORY (continued)

BIRDS (continued)			
Flycatcher, Grey	*Empidonax wrightii*	BC	1992
Goshawk, Northern	*Accipiter gentilis atricapillus*	All provinces and territories	1995
Grebe, Red-necked	*Podiceps grisegena*	All provinces and territories except PE and NB	1982
Gyrfalcon	*Falco rusticolus*	YT, NT, NU, BC, AB, SK, ON, QC, NF, NS, PE	1987
Harrier, Northern	*Circus cyaneus*	All provinces and territories	1993
Hawk, Cooper's	*Accipiter cooperii*	BC, AB, SK, MB, ON, QC, NB, NS	1996
Hawk, Red-tailed	*Buteo jamaicensis*	All provinces and territories	1995
Hawk, Rough-legged	*Buteo lagopus*	YT, NT, NU, BC, MB, ON, QC, NF	1995
Hawk, Sharp-shinned	*Accipiter striatus*	All provinces and territories	1997
Loon, Common	*Gavia immer*	All provinces and territories	1997
Loon, Yellow-billed	*Gavia adamsii*	YT, NT, NU, BC	1997
Merlin	*Falco columbarius*	All provinces and territories	1985
Owl, Boreal	*Aegolius funereus*	All provinces and territories	1995
Owl, Great Grey	*Strix nebulosa*	YT, NT, BC, AB, SK, MB, ON, QC	1996
Owl, Northern Hawk	*Surnia ulula*	YT, NT, BC, AB, SK, MB, ON, QC, NB, NF	1992
Owl, Snowy	*Nyctea scandiaca*	YT, NT, NU, MB, QC, NF	1995
Pelican, American White	*Pelecanus erythrorhynchos*	BC, AB, SK, MB, ON	1987
Screech-Owl, Eastern	*Otus asio*	SK, MB, ON, QC	1986
Sparrow, Baird's	*Ammodramus bairdii*	AB, SK, MB	1996
Sparrow, Nelson's Sharp-tailed	*Ammodramus nelsoni*	BC, AB, SK, MB, ON, QC, NB, NS, PE	1998
Swan, Trumpeter	*Cygnus buccinator*	YT, NT, BC, AB, SK, ON	1996
Tern, Black	*Chlidonias niger*	NT, BC, AB, SK, MB, ON, QC, NB, NS	1996
Tern, Caspian	*Sterna caspia*	NT, NU, BC, AB, SK, MB, ON, QC, NF	1999
Tern, Common	*Sterna hirundo*	NT, AB, SK, MB, ON, QC, NB, NS, PE, NF	1998
Warbler, Prairie	*Dendroica discolor*	ON	1999
Wren, Canyon	*Catherpes mexicanus*	BC	1992
Wren, Sedge	*Cistothorus platensis*	AB, SK, MB, ON, QC, NB	1993
AMPHIBIANS (9)			
Ensatina	*Ensatina eschscholtzii*	BC	1999
Frog, Columbia Spotted	*Rana luteiventris*	YT, BC, AB	2000
Frog, Northern Leopard	*Rana pipiens*	(Eastern population) ON, QC, NB, NS	1999
Frog, Pickerel	*Rana palustris*	ON, QC, NB, NS	1999
Mudpuppy	*Necturus maculosus*	ON, QC, MB	2000
Salamander, Four-toed	*Hemidactylium scatatum*	ON, QC, NB, NS	1999
Salamander, Northern Dusky	*Desmognathus fuscus*	ON, QC	1999
Salamander, Northwestern	*Ambystoma gracile*	BC	1999
Treefrog, Cope's Grey	*Hyla chrysoscelis*	MB	1999
REPTILES (1)			
Racer, Western Yellow-bellied	*Coluber constrictor mormon*	BC	1991
FISH (30)			
Bloater	*Coregonus hoyi*	ON	1988
Chub, Hornyhead	*Nocomis biguttatus*	MB, ON	1988
Chub, River	*Nocomis micropogon*	ON	1988
Dace, Leopard	*Rhinichthys falcatus*	BC	1990
Darter, Least	*Etheostoma microperca*	ON	1989
Darter, River	*Percina shumardi*	MB, ON	1989
Darter, Tesselated	*Etheostoma olmstedi*	ON, QC	1993
Herring, Blueback	*Alosa aestivalis*	NB, NS	1980
Killifish, Banded	*Fundulus diaphanus*	(mainland population) MB, ON, QC, NB, NS, PE, NF	1989
Minnow, Bluntnose	*Pimephales notatus*	MB, ON, QC	1998
Minnow, Cutlips	*Exoglossum maxillingua*	ON, QC	1994

LIST 2. (continued)

NOT AT RISK CATEGORY (continued)

FISH (continued)			
Minnow, Eastern Silvery	*Hybognathus regius*	ON, QC	1997
Pickerel, Chain	*Esox niger*	QC, NB, NS	1997
Pickerel, Redfin	*Esox americanus americanus*	QC	1998
Redhorse, Golden	*Moxostoma erythrurum*	MB, ON	1989
Sculpin, Fourhorn	*Myoxocephalus quadricornis*	(salt water form) Arctic, Atlantic and Pacific Oceans	1989
Sculpin, Spoonhead	*Cottus ricei*	YT, NT, BC, AB, SK, MB, ON, QC	1989
Shiner, Blackchin	*Notropis heterodon*	MB, ON, QC	1994
Shiner, Ghost	*Notropis buchanani*	ON	1993
Shiner, Redfin	*Lythrurus umbratilis*	ON	1988
Shiner, Rosyface	*Notropis rubellus*	ON, QC	1994
Shiner, Striped	*Luxilus chrysocephalus*	ON	1993
Shiner, Weed	*Notropis texanus*	MB	1999
Silverside, Brook	*Labidesthes sicculus*	ON, QC	1989
Stoneroller, Central	*Campostoma anomalum*	ON	1998
Sturgeon, Lake	*Acipenser fulvescens*	AB, SK, MB, ON, QC	1986
Sucker, Mountain	*Catostomus platyrhynchus*	BC, AB, SK	1991
Sunfish, Green	*Lepomis cyanellus*	ON	1987
Sunfish, Longear	*Lepomis megalotis*	ON, QC	1987
Y-Prickleback	*Allolumpenus hypochromus*	BC	1991
MOLLUSCS			

LEPIDOPTERANS			

PLANTS (16)			
Aster, Short's	*Symphyotrichum shortii* (*Aster shortii*)	ON	1999
Aster, Yukon	*Symphyotrichum yukonense* (*Aster yukonensis*)	YT, NT	1996
Brickellia, Large-flowered	*Brickellia grandiflora*	BC, AB	1996
Fameflower	*Talinum sediforme*	BC	1990
Fleabane, Dwarf	*Erigeron radicatus*	AB, SK	1996
Goldenweed, MacLean's	*Haplopappus macleanii*	YT	1997
Mermaid, False	*Floerkea proserpinacoides*	ON, QC, NS	1984
Phlox, Blue	*Phlox alyssifolia*	AB, SK	1996
Rhododendron, Pacific	*Rhododendron macrophyllum*	BC	1997
Rush Pink	*Stephanomeria runcinata*	AB, SK	1996
Sagebrush, Wood's	*Artemisia rupestris* ssp. *woodii*	YT	1997
Sedge, Nebraska	*Carex nebrascensis*	AB	1995
Stitchwort, Sand	*Stellaria arenicola*	AB, SK	1992
Wallflower, Narrow-leaved	*Erysimum angustatum*	YT	1993
Willow, Tyrrell's	*Salix tyrrellii*	NU, SK	1999
Woolly-heads, Slender	*Psilocarphus tenellus* var. *tenellus*	BC	1996
LICHENS			

MOSSES			

LIST 3. SPECIES EXAMINED AND DESIGNATED IN THE DATA DEFICIENT CATEGORY BECAUSE OF INSUFFICIENT SCIENTIFIC INFORMATION WITH GEOGRAPHICAL OCCURRENCE AND DATE EXAMINED

MAMMALS (9)			
Cougar	*Puma concolor couguar*	(Eastern population) ON, QC, NB, NS	1998
Mouse, Western Harvest	*Reithrodontomys megalotis dychei*	(Prairie population) AB	1994
Porpoise, Harbour	*Phocoena phocoena*	Pacific Ocean	1991
Seal, Harbour	*Phoca vitulina concolor*	Atlantic and Arctic coastal waters	1999
Vole, Sagebrush	*Lemmiscus curtatus*	AB, SK	1996
Whale, Dwarf Sperm	*Kogia simus*	Pacific Ocean	1997
Whale, Killer	*Orcinus orca*	North Atlantic and Arctic populations	1999
Wolf, Grey	*Canis lupus arctos*	NT, NU	1999
Wolf, Grey	*Canis lupus lycaon*	ON, QC	1999
BIRDS (3)			
Poorwill, Common	*Phalaenoptilus nuttallii*	BC, AB, SK	1993
Screech-Owl, Western	*Otus kennicottii*	BC	1995
Tern, Forster's	*Sterna forsteri*	BC, AB, SK, MB, ON	1996
AMPHIBIANS			

REPTILES			

FISH (7)			
Catfish, Flathead	*Pylodictis olivaris*	ON	1993
Chiselmouth	*Acrocheilus alutaceus*	BC	1997
Cisco, Bering	*Coregonus laurettae*	YT	1990
Lamprey, Darktail	*Lethenteron alaskense*	NT	1990
Poacher, Pixie	*Ocella impi*	BC	1991
Sculpin, Spinynose	*Asemichthys taylori*	Pacific Coast	1997
Whitefish, Mira River	*Coregonus clupeaformis*	NS	1999
MOLLUSCS (1)			
Snail, Gatineau Tadpole	*Physella parkeri latchfordi*	ON (?), QC	1997
LEPIDOPTERANS			

PLANTS (4)			
Barley, Little	*Hordeum pusillum*	AB	1993
Goldenweed, Rabbit-brush	*Ericameria bloomeri*	BC	1997
Pinweed, Impoverished	*Lechea intermedia* var. *depauperata*	SK	1997
Whitlow-grass, Kananaskis	*Draba kananaskis*	AB	1992
LICHENS			

MOSSES			

RECORD OF STATUS RE-EXAMINATIONS [5 6 7]

AMERICAN BADGER: considered as one population and designated not at risk in 1979; re-examined as three populations in 2000 and designated: jacksoni subspecies - endangered; jeffersonii subspecies - endangered; and taxus subspecies - not at risk.

AMERICAN BLACK BEAR: provisionally considered not at risk in 1998; re-examined and reconfirmed in 1999.

AMERICAN GINSENG: designated threatened in 1988 and uplisted to endangered in 1999.

AMERICAN MARTEN (Newfoundland Population): not at risk in 1979 and uplisted to threatened in 1986; re-examined and uplisted to endangered in 1996.

AMERICAN WATER-WILLOW: designated threatened in 1984 and reconfirmed in 2000.

AMERICAN WHITE PELICAN: designated threatened in 1978 and delisted in 1987.

ANATUM PEREGRINE FALCON: designated endangered in 1978 and downlisted to threatened in 1999.

ANTICOSTI ASTER: designated threatened in 1990 and reconfirmed in 2000.

APPLE MOSS: designated threatened in 1997; re-assessed and uplisted to endangered in 2000.

ATHABASCA THRIFT: designated threatened in 1981 and downlisted to special concern in 1999.

AURORA TROUT: designated endangered in 1987 and reconfirmed in 2000.

BANFF SPRINGS SNAIL: designated threatened in 1997; re-assessed and uplisted to endangered in 2000.

BAIRD'S SPARROW: designated threatened in 1989 and delisted in 1996.

BARN OWL: considered as one population and designated special concern in 1984; re-examined as two populations in 1999 and designated: Eastern population - uplisted to endangered; and Western population - reconfirmed as special concern.

BASHFUL BULRUSH (Few-flowered Club-rush): designated special concern in 1986; re-examined and uplisted to endangered in 2000.

BELUGA WHALE (St Lawrence River population): designated endangered in 1983 and reconfirmed in 1997.

BENTHIC PAXTON LAKE STICKLEBACK (formerly listed as Benthic Texada Island Stickleback): provisionally designated threatened in 1998; re-examined and reconfirmed in 1999; re-assessed and uplisted to endangered in 2000.

BENTHIC VANANDA CREEK STICKLEBACK: designated threatened in 1999; re-assessed and uplisted to endangered in 2000.

BLACK-TAILED PRAIRIE DOG: designated special concern in 1978 and reconfirmed in 1988 and 1999.

BLACK TERN: not at risk in 1988 and reconfirmed in 1996.

BLUEHEARTS: designated threatened in 1985 and uplisted to endangered in 1998.

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5 **"Special Concern" formerly described as "Vulnerable" from 1990 to 1999, or "Rare" prior to 1990.**

6 **"Not at Risk" formerly described as "Not in Any Category", or "No Designation Required".**

7 **"Data Deficient" formerly described as "Indeterminate" from 1994 to 1999, or "ISIBD" (insufficient scientific information on which to base a designation) prior to 1994.**

RECORD OF STATUS RE-EXAMINATIONS (continued)

BLUNT-LOBED WOODSIA: designated threatened in 1994; re-assessed and uplisted to endangered in 2000.

BOWHEAD WHALE: Eastern and Western Arctic populations designated endangered in 1980; Western Arctic population re-examined and reconfirmed in 1986.

BURROWING OWL: designated threatened in 1979 and reconfirmed in 1991; re-examined in 1995 and uplisted to endangered.

CASPIAN TERN: designated as special concern in 1978 and delisted in 1999.

CENTRAL STONEROLLER: designated special concern in 1985 and delisted in 1998.

COOPER'S HAWK: designated special concern in 1983 and delisted in 1996.

COUGAR (Eastern Population): designated endangered in 1978; re-examined in 1998 and listed as data deficient because there was insufficient scientific data to evaluate taxonomy or assign a status.

CUCUMBER TREE: designated endangered in 1984 and reconfirmed in 1999.

ESKIMO CURLEW: designated endangered in 1978 and reconfirmed in 2000.

EASTERN BLUEBIRD: designated special concern in 1984 and delisted in 1996.

EASTERN MOLE: designated special concern in 1980 and reconfirmed in 1998.

EASTERN MOUNTAIN AVENS: designated endangered in 1986 and reconfirmed in 1999.

EASTERN PRICKLY PEAR CACTUS: designated endangered in 1985 and reconfirmed in 1998.

FALSE HOP SEDGE: designated threatened in 1997; re-assessed and uplisted to endangered in 2000.

FERRUGINOUS HAWK: designated threatened in 1980 and downlisted to special concern in 1995.

FLAMMULATED OWL: designated special concern in 1988 and reconfirmed in 1999.

FOWLER'S TOAD: designated special concern in 1986 and uplisted to threatened in 1999.

FURBISH'S LOUSEWORT: designated endangered in 1980 and reconfirmed in 1998.

GATTINGER'S AGALINIS: designated endangered in 1988 and reconfirmed in 1999.

GIANT HELLEBORINE: designated threatened in 1984 and downlisted to special concern in 1998.

GOLDEN CREST: designated threatened in 1987 and reconfirmed in 1999.

GOLDEN EAGLE: not at risk in 1987 and reconfirmed in 1996.

GOLDEN PAINTBRUSH: designated threatened in 1995; re-assessed and uplisted to endangered in 2000.

GOLDENSEAL: designated threatened in 1991; re-examined and reconfirmed in 2000.

GRAVEL CHUB: designated endangered in 1985 and uplisted to extirpated in 1987.

GREAT GREY OWL: designated special concern in 1979 and delisted in 1996.

GREATER PRAIRIE CHICKEN: designated endangered in 1978 and uplisted to extirpated in 1990.

GRIZZLY BEAR: not at risk in 1979 and uplisted to special concern in 1991. (The uplisting recognized the sensitivity of the grizzly bear to environmental changes and overharvest, though its population was not in decline.)

GYRFALCON: not at risk in 1978 and reconfirmed in 1987.

HARBOUR PORPOISE: Northeast Atlantic population designated threatened in 1990 and reconfirmed in 1991. Northeast Pacific population designated data deficient in 1991.

HEART-LEAVED PLANTAIN: designated endangered in 1985 and reconfirmed in 1998.

HENSLOW'S SPARROW: designated threatened in 1984 and uplisted to endangered in 1993.

HOARY MOUNTAIN-MINT: designated endangered in 1986 and reconfirmed in 1998.

HUMPBACK WHALE: both Atlantic and Pacific populations were designated threatened in 1982; status reconfirmed as threatened for the North Pacific population; and Western North Atlantic population downlisted to special concern in 1985.

IVORY GULL: designated special concern in 1981 and reconfirmed in 1996.

KING RAIL: designated special concern in 1985 and uplisted to endangered in 1994.

KIRTLAND'S WARBLER: designated endangered in 1979 and reconfirmed in 1999.

LAKE LAMPREY: designated special concern in 1986 and reconfirmed in 1998.

LARGE WHORLED POGONIA: designated endangered in 1986 and reconfirmed in 1998.

LEAST BITTERN: designated special concern in 1988 and reconfirmed in 1999.

LIMNETIC PAXTON LAKE STICKLEBACK (formerly listed as Limnetic Texada Island Stickleback): provisionally designated threatened in 1998; re-examined and reconfirmed in 1999; re-assessed and uplisted to endangered in 2000.

LIMNETIC VANANDA CREEK STICKLEBACK: designated threatened in 1999; re-assessed and uplisted to endangered in 2000.

LOGGERHEAD SHRIKE: considered as one population in 1986 and designated threatened; eastern population was re-examined and uplisted to endangered in 1991.

LOUISIANA WATERTHRUSH: designated special concern in 1991 and reconfirmed in 1996.

MEXICAN MOSQUITO FERN: designated threatened in 1984 and reconfirmed in 1998.

MORRISON CREEK LAMPREY: designated threatened in 1999; re-assessed and uplisted to endangered in 2000.

MOUNTAIN BEAVER: not at risk in 1984 and uplisted to special concern in 1999.

NARWHAL: not at risk in 1986 and reconfirmed in 1987.

NODDING POGONIA: designated threatened in 1988 and uplisted to endangered in 1999.

NORTHERN MADTOM: considered data deficient in 1993; re-examined and designated special concern in 1998.

NORTHERN SPOTTED OWL (formerly listed as Spotted Owl - *Strix occidentalis*): designated endangered in 1986 and reconfirmed in 1999.

NUTTALL'S COTTONTAIL: prairie population not at risk in 1991 and reconfirmed in 1994; BC population was designated special concern in 1994.

PALLID BAT: designated special concern in 1988; re-examined and uplisted to threatened in 2000.

PEALE'S PEREGRINE FALCON: designated special concern in 1978 and reconfirmed in 1999.

PEARY CARIBOU: considered as one population and designated threatened in 1979. Re-examined as three populations in 1991 and designated: Banks Island population - endangered; High Arctic population - endangered; and Low Arctic population - threatened.

PHANTOM ORCHID: designated special concern in 1992; re-examined and uplisted to threatened in 2000.

PINK COREOPSIS: designated endangered in 1984 and reconfirmed in 1999.

PINK MILKWORT: designated endangered in 1984 and reconfirmed in 1998.

PIPING PLOVER: designated threatened in 1978 and uplisted to endangered in 1985.

PITCHER'S THISTLE: designated threatened in 1988 and uplisted to endangered in 1999.

PLAINS POCKET GOPHER: designated special concern in 1979 and delisted in 1998.

PLYMOUTH GENTIAN: designated threatened in 1984 and reconfirmed in 1999.

POLAR BEAR: not at risk in 1986; uplisted to special concern in 1991. (The uplisting recognized the sensitivity of the polar bear to environmental changes and overharvest though its population was not in decline.) Re-examined and reconfirmed in 1999.

PRAIRIE FALCON: not at risk in 1978 and reconfirmed in 1982; re-examined and reconfirmed in 1996.

PRAIRIE LONG-TAILED WEASEL: designated threatened in 1982 and delisted in 1993.

PRAIRIE WARBLER: designated special concern in 1985 and delisted in 1999.

PROTHONOTARY WARBLER: designated special concern in 1984 and uplisted to endangered in 1996.

PUGNOSE MINNOW: designated special concern in 1985 and reconfirmed in 2000.

PURPLE TWAYBLADE: designated threatened in 1989 and uplisted to endangered in 1999.

RED MULBERRY: designated threatened in 1987 and uplisted to endangered in 1999.

RED SHOULDERED HAWK: designated special concern in 1983 and reconfirmed in 1996.

RIGHT WHALE: designated endangered in 1980; reconfirmed in 1985 and 1990.

RIVER REDHORSE: designated special concern in 1983 and reconfirmed in 1987.

ROSEATE TERN: designated threatened in 1986, re-assessed and uplisted to endangered in 1999.

ROSS' GULL: designated special concern in 1981 and reconfirmed in 1996.

SAGE GROUSE: conditionally designated threatened in 1997. Considered as two populations in 1998 and designated: BC population - extirpated; and Prairie population (AB and SK) - endangered.

SAVANNAH "IPSWICH" SPARROW: designated special concern in 1979; re-examined and reconfirmed in 2000.

SEA OTTER: designated endangered in 1978 and reconfirmed in 1986; re-examined and downlisted to threatened in 1996.

SHARP-SHINNED HAWK: not at risk in 1986 and reconfirmed in 1997.

SHUMARD OAK: designated special concern in 1984 and reconfirmed in 1999.

SILVER SHINER: designated special concern in 1983 and reconfirmed in 1987.

SKINNER'S AGALINIS: designated endangered in 1988 and reconfirmed in 1999.

SLENDER BUSH-CLOVER: designated endangered in 1986 and reconfirmed in 1999.

SLENDER MOUSE-EAR CRESS: designated endangered in 1992; re-examined and downlisted to threatened in 2000.

SMALL WHITE LADY'S-SLIPPER: designated endangered in 1981 and reconfirmed in 1999.

SMALL WHORLED POGONIA: designated endangered in 1982 and reconfirmed in 1998.

SOAPWEED: designated special concern in 1985; re-assessed and uplisted to threatened in 2000.

SOUTHERN MAIDENHAIR FERN: designated endangered in 1984 and reconfirmed in 1998.

SPOTTED GAR: designated special concern in 1983 and reconfirmed in 1994.

SPOTTED SUCKER: designated special concern in 1983 and reconfirmed in 1994.

SPOTTED WINTERGREEN: designated endangered in 1987 and reconfirmed in 1998.

SWEET PEPPERBUSH: designated threatened in 1986 and reconfirmed in 1998.

SWIFT FOX: designated extirpated in 1978 and downlisted to endangered in 1998.

TAILED FROG: assessed as two populations in 2000 and designated: South Mountain population - endangered; and Pacific Coast population - special concern.

TRUMPETER SWAN: designated special concern in 1978 and delisted in 1996.

TUBEROUS INDIAN-PLANTAIN: designated special concern in 1988 and reconfirmed in 1999.

TUNDRA PEREGRINE FALCON: designated threatened in 1978 and downlisted to special concern in 1992.

TYRRELL'S WILLOW: designated threatened in 1981 and delisted in 1999.

VANCOUVER ISLAND MARMOT: designated endangered in 1978 and reconfirmed in 1997.

VIRGINIA GOAT'S RUE: designated threatened in 1996; re-assessed and uplisted to endangered in 2000.

WATER-PENNYWORT: designated endangered in 1985 and downlisted to threatened in 1999.

WESTERN BLUE-FLAG: designated threatened in 1990 and reconfirmed in 2000.

WESTERN PRAIRIE FRINGED ORCHID: designated endangered in 1993 and reconfirmed in 2000.

WESTERN SILVER-LEAVED ASTER: designated special concern in 1988; re-examined and uplisted to threatened in 2000.

RECORD OF STATUS RE-EXAMINATIONS (continued)

WOLVERINE: considered as one population in 1982 and designated special concern. Re-examined as two populations in 1989: Eastern (Quebec and Labrador) population - endangered; and Western population - special concern.

WOOD BISON: designated endangered in 1978; downlisted to threatened in 1988; re-assessed and reconfirmed in 2000.

WOODLAND CARIBOU: considered as five populations in 1984 and re-examined as six populations in 2000. Designated: Queen Charlotte Islands population - extinct; Atlantic-Gaspésie population - endangered; Boreal population - threatened; Southern Mountain population - threatened; Northern Mountain population - not at risk; and Newfoundland population - not at risk.

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The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) was created in 1977 as a result of a recommendation at the Federal-Provincial Wildlife Conference held in 1976. It arose from the need for a single, official, scientifically sound, national listing of wildlife species at risk. In 1978, COSEWIC designated its first species and produced its first list of Canadian species at risk. Species designated at annual meetings are added to the list.

Environment Canada
Canadian Wildlife Service

Environnement Canada
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